



In the United States Patent and Trademark Office

Application No: 10/713,565
 Filed: 11/13/2003
 Title: "Artificial Synapse Chip"
 Applicant(s): Harvey A. Fishman et al.
 Examiner: Not Yet Assigned
 Art Unit: 3763

Mailed _____
 Palo Alto, CA

Information Disclosure Statement

Commissioner of Patents and Trademarks
 Alexandria, VA 22313

Dear Sir or Madam:

Attached is a completed Form PTO-1449 and copies of the pertinent parts of the references cited thereon. It is requested that the document(s) on the enclosed form be made of record.

Part I (Authority)

This statement is filed pursuant to:

(X) 37 C.F.R. § 1.97(b).

This information disclosure statement is filed either (1) within three months of the filing date of the national applications; (2) within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application; or (3) before the mailing date of a first office action on the merits, whichever event occurs last.

Accordingly, this information disclosure statement requires no fee and no certification.

() 37 C.F.R. § 1.97(c).

This information disclosure statement is filed after the period specified in 37 C.F.R. § 1.97(b), but before the mailing date of either (1) a final action under 37 C.F.R. § 1.113 or (2) a notice of allowance under 37 C.F.R. § 1.311.

Accordingly, this information disclosure statement requires either the fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) (\$240), or a certification according to 37 C.F.R. § 1.97(e).

() 37 C.F.R. § 1.97(d).

This information disclosure statement is filed after the period specified in 37 C.F.R. § 1.97(c).

Accordingly, this information disclosure statement requires the petition fee specified in 37 C.F.R. § 1.17(i)(1) to consider an information disclosure statement under 37 C.F.R. § 1.97(d) (\$130), a certification according to 37 C.F.R. § 1.97(e), and a petition requesting consideration of the information disclosure statement.

Conditional Petition

It is respectfully requested that this information disclosure statement be considered, good cause being presented in Part III herein (certification). Please treat this paper as the required petition.

If this statement crosses in the mail with an office action, or is otherwise not in the indicated category of 37 C.F.R. § 1.97, it is respectfully requested that this statement be treated in the next appropriate category and made of record.

To the extent required, please treat this paper as a conditional petition for acceptance of the information disclosure statement.

Part II (Payment)

A check is enclosed as indicated:

- ☒ (X) No fee is due.
- ☐ () The fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) is enclosed (\$240).
- ☐ () The petition fee specified in 37 C.F.R. § 1.17(i)(1) to consider an information disclosure statement under 37 C.F.R. § 1.97(d) is enclosed (\$130).

Part III (Certification)

Pursuant to 37 C.F.R. § 1.97(e), I certify:

- ☒ (X) No certification is necessary.
- ☐ ()
 - (1) Each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the statement.
 - ☐ () The “communication from a foreign patent office” referred to in the certification is an International Search Report, possibly issued by the U.S. Patent and Trademark Office in its capacity as an International Search Authority or International Preliminary Examining Authority.
 - ☐ () The “counterpart foreign application” referred to in the certification corresponds to an ancestor or descendent application of the application for which this information disclosure statement is filed.
- ☐ () (2) No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c), more than three months prior to the filing of the statement.

Part IV (Additional Statement)

An additional statement regarding these items of information () is, (X) is not, enclosed.
Copies of the cited documents (X) are enclosed and (X) are of record in parent application
Serial No. 10/184,210 and will be provided if the Examiner deems it convenient.

Respectfully submitted,

Dated:

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE				ATTY. DOCKET NO. S02-296/US		SERIAL NO. 10/713565	
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Harvey A. Fishman et al.			
				FILING DATE 11/13/2003		GROUP 3763	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME		RELEVANT INFORMATION	
	A	2002/0087202	07/04/2002	Chow et al.		607/53	
	B	2002/01882882	12/12/2002	Greenberg		604/890	
	C	5 9 6 2 0 2 7	10/99	Hughes			
	D	6 0 4 5 7 9 1	4/00	Liu			
	E						
	F						
	G						
	H						
FOREIGN PATENT DOCUMENTS							
		2- letter code	DOCUMENT NUMBER	DATE	COUNTRY		TRANSLATION
							YES NO
	I	WO	03/002190A2				
	J						
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	K		Peterman et al., "Localized Neurotransmitter Release for Use in Prototype Retinal Interface," 2003 IOVS 44, 3144.				
	L		Maghrebi et al., "Stretchable Micro-Electrode Array," Poster 149, 2 nd Annual International IBEE-EMBS Special Topic Conference on Microtechnologies in Medicine and Biology, May 2-4, 2002, Madison, WI.				
	M		L. Lu et al., "Retinal pigment epithelium cell culture on this biodegradable poly(DL-lactic-co-glycolic acid) films", J. Biomater Science Edn. Vol. 9, No.11, pp. 1187-1205 (1998)				
	N		T. Dintelmann et al., "Comparative study of ROS degradation by IPE and RPE cells in vitro", Graefe's Arch Clin. Excp. Ophthalmology 1999, No. 237, pp 830-839				
	O		C.D. James et al., "Aligned Microcontact Printing of Micrometer-Scale Poly-L-Lysine Structures for Controlled Growth of cultured Neurons on Planar Microelectrode Arrays", IEEE Transaction On Biomedical Engineering, Vol. 47, No. 1, January 2000, pp. 17-21				
	P		U. Hartmann et al., "Human and porcine anterior lens capsule as support for growing and grafting retinal pigment epithelium and iris pigment epithelium," Graefe's Arch Clin Exp Ophthalmology (1999), Vol. 237, pp. 940-945.				
	Q		G. Thumann et al., "Transplantation of Autologous Iris Pigment Epithelium After Removal of Choroidal Neovascular Membranes, Arch Ophthalmology (Oct. 2000), Vol. 118, pp. 1350-1355				
	R		L. Lu et al., "Retinal pigment epithelial cell function on substrates with chemically micropatterned surfaces", Biomaterails (Dec. 1999), Vol. 20, No. 23/24, pp. 2351-2361				
	S		Lappas et al., "Clinical investigation: Iris pigment epithelial cell translocation in exudative age-related macular degeneration, A pilot study in patents", Graefe's Archive for clinical Experimental Ophthalmology, Abstract, Vol. 238 issue, pp 1 and 2 electronic version, ISSN: 1435-702X,				

	T	Giordano et al., "Retinal pigment epithelium cells cultured on synthetic biodegradable polymers", (Abstract) http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&List_uids=897...6 .
	U	T. Abe et al., "Auto iris pigment epithelial cell transplantation in patients with age-related macular degeneration: short-term results", (Abstract) http://www.n.../query.fcgi?cmd=Retrieve&dblist=PubMed&List_uids=10896035&dopt=Ab .
	V	T. Abe et al., "Functional analysis after auto iris pigment epithelial cell transplantation in patients with age-related macular degeneration", (Abstract) http://www.n.../query.fcgi?cmd=Retrieve&db=PubMed&List_uids=10739164&dopt=Abst .
	W	J. Nicolini et al., "The anterior lens capsule used as support material in RPE cell-transplantation", (Abstract) http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&List_uids=11C...7 .
EXAMINER		DATE CONSIDERED
<p>* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>		